

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-217467

(43)Date of publication of application : 10.08.1999

(51)Int Cl

C08L 23/00

C08K 5/54

C08K 9/06

(21)Application number : 10-022158

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(22)Date of filing : 03.02.1998

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## (54) NONHALOGEN FLAME-RETARDANT RESIN COMPOSITION

## (57) Abstract:

PROBLEM TO BE SOLVED: To obtain a nonhalogen flame-retardant resin compsn. excellent in flame retardance, tensile strength, and elongation by compounding an olefin resin, a metal hydroxide surface-treated with a silane, and a silane crosslinker.

SOLUTION: This compsn. comprises an olefin resin (e.g. a metallocene-catalyzed PE), a metal hydroxide (e.g. aluminum hydroxide) surface-treated with a silane, pref. an organosilane (e.g. vinyltrimethoxysilane), and a silane crosslinker (e.g. vinyltrimethoxysilane). In the surface treatment of the metal hydroxide, pref., 5-40 pts.wt., still pref. 8-25 pts.wt., silane is used, based on 100 pts.wt. metal hydroxide. Pref., 100 pts.wt. olefin resin is compounded with 100-250 pts.wt., still pref. 130-220 pts.wt., esp. pref. 150-200 pts.wt., silane-treated metal hydroxide and 1-3 pts.wt., still pref. 1.5-2.8 pts.wt. silane crosslinker. The metal hydroxide having an average particle size of 20  $\mu$ m or lower is suitable.

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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